11321-P021US



**PATENT** 

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## UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:

Group Art Unit:

Richard E. Smalley et al.

1754

Serial No.:

10/071,166

PECEIVED TO 1 FOOD Examiner: Not Yet Assigned

Filed:

February 8, 2002

Title:

GAS-PHASE PROCESS FOR PURIFYING SINGLE-WALL CARBON

NANOTUBES AND COMPOSITIONS THEREOF

## **INFORMATION DISCLOSURE STATEMENT**

**Assistant Commissioner for Patents** Washington, D.C. 20231

Dear Sir:

This Information Disclosure Statement is being submitted in connection with the above-identified application for patent. Applicants submit herewith patents, publications or other information of which they are aware, which they believe may be material to the patentability of this application and in respect of which there may be a duty to disclose in accordance with 37 C.F.R. § 1.56.

## **CERTIFICATION UNDER 37 C.F.R. § 1.8**

I hereby certify that this correspondence (along with any item referred to as being enclosed herewith) is being deposited with the United States Postal Service with sufficient postage as fast slass mail in an envelope addressed to the Assistant Commissioner for Patents, Washington, D.C. 20231, on May 9

Signature

**Gracie Solis** 

(Printed name of person certifying)

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While this Information Disclosure Statement may be "material" pursuant to 37 C.F.R. § 1.56, it is not intended to constitute an admission that any patent, publication or other information referred to herein is "prior art" for this invention unless specifically designated as such.

In accordance with 37 C.F.R. § 1.97(g), the filing of this Information Disclosure Statement shall not be construed to mean that a search has been made or that no other material information as defined in 37 C.F.R. § 1.56(a) exists.

The attached form, PTO-1449, provides a listing of patents, publications, or other information as required by 37 C.F.R. § 1.98(a)(1).

A copy of each of the items identified on the attached Form PTO-1449 is supplied herewith, except for the pending patent applications, for which no copies are being submitted.

Respectfully submitted,

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LIST OF PATENTS AND PUBLICATIONS REP

rial No.: plicants:

10/071,166

Richard E. Smalley et al.

ng Date:

February 8, 2002

1754 ty. Docket No.: 11321-P021US

APPLICANTS' INFORMATION DISCLOSU **STATEMENT** 

Reference Designation

**DOCUMENTS** 

Examiner Initial	Document Number	Date	Name	Class	Subclass	Translat <u>Yes</u>	ion No
AAA	EP 1 061 042 A1	12/20/2000	Europe			Yes	•
ABA	EP 1 061 040 A1	12/20/2000	Europe			Yes	1/2

## OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

Examiner Initial	Document Number	Date	Name	Class	Subclass	Translation Yes No	
AAA	EP 1 061 042 A1	12/20/2000	Europe			Yes	
ABA	EP 1 061 040 A1	12/20/2000	Europe			Yes My	
OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)							16
Examiner Initial							CELLAND OF THE PROPERTY OF THE
ACA	TOHJI, et al., "Pur	ifying single-v	walled nanotubes," Natur	e, Volume 383	, October 24, 1	996, p. 679.	•
ADA	BOUGRINE, et al., "Influence of high temperature treatments on single-walled carbon nanotubes structure, morphology and surface properties," Carbon, Volume 39 (2001), pp. 685-695.						
AEA	HOU, et al., "Purification of single-walled carbon nanotubes synthesized by the hydrogen arc-discharge method," J. Mater. Res., Volume 16, Number 9, September 2001, pp. 2526-2529.						
AFA	GRIMES, et al., "Effect of purification of the electrical conductivity and complex permittivity of multiwall carbon nanotubes," Journal of Applied Physics, Volume 90, Number 8, October 15, 2001, pp. 4134-4137.						
AGA							
АНА	CHIANG, et al., "Purification and Characterization of Single-Wall Carbon Nanotubes (SWNTs) Obtained from the Gas-Phase Decomposition of CO (HiPco Process)," J. Phys. Chem. B., Volume 105 (2001), pp.						
AIA	8297-8301. CHIANG, et al., "Purification and Characterization of Single-Wall Carbon Nanotubes," J. Phys. Chem. B., Volume 105 (2001), pp. 1157-1161.						
AJA	MOON, et al., "High-Yield Purification Process of Singlewalled Carbon Nanotubes," J. Phys. Chem. B., Volume 105 (2001), pp. 5677-5681.						
AKA	BANDOW, et al., "Purification and magnetic properties of carbon nanotubes," Applied Physics A, Volume 67 (1998), pp. 23-27.						
ALA	DUESBERG, et al, "Towards processing of carbon nanotubes for technical applications," Applied Physics A., Volume 69 (1999), pp. 269-274.						
AMA	RINZLER, et al., "Large-scale purification of single-wall carbon nanotubes: process, product, and characterization," Applied Physics A, Volume 67 (1998), pp. 29-37.						
ANA	ZHOU, et al, "Structural characterization and diameter-dependent oxidative stability of single wall carbon nanotubes synthesized by the catalytic decomposition of CO," Chem. Phys. Lett., 350 (2001), pp. 6-14.						
AOA	JEONG, et al., "A new purification method of single-wall carbon nanotubes using H <sub>2</sub> S and O <sub>2</sub> mixture gas,"  Chem. Phys. Lett., 344 (2001), pp. 18-22.						
APA	DUJARDIN, et al., "Purification of Single-Shell Nanotubes," Adv. Mater., Volume 10, Number 8 (1998), pp. 611-613.						
AQA	DILLON, et al., "A Simple and Complete Purification of Single-Walled Carbon Nanotube Materials," Adv. Mater., Volume 11, Number 16 (1999), pp. 1354-1358.						
ARA	TOHJI, et al., "Purification Procedure for Single-Walled Nanotubes," J. Phys. Chem. B, Volume 101 (1997), pp. 1974-1978.						
Examiner:						Date Considered	<del>-</del> :

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.